

# Second Order Water Scarcity – A Case of Zambia

Experiences from Field Work

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# Presentation Layout

- Introduction
  - Research Methodology
  - Research Findings
  - Key Themes
  - Conclusion
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# Introduction

- Focus and purpose of research
- Period of research
- Expected outputs
- Further steps

# Research Methodology

- Selection of Sites
- Selection of Actors
- Interview Structure
- Data Collection
- Data Analysis

# Research Findings

## ➤ Domestic Cases

- Urban - CU
- Peri-urban – Water Scheme
- Rural – Water Committee

## ➤ Industrial Case

- Mines

## ➤ Agricultural Case

- Kawambwa Tea
- Commercial Farmers
- Small Scale Farmers

# Key Themes

## ➤ Decision Making

- Typologies
- Land links

## ➤ Influence

- Hierarchy
- Regulation of access

## ➤ Focus Shift

- Peri-urban areas
- Rural areas



# Typologies

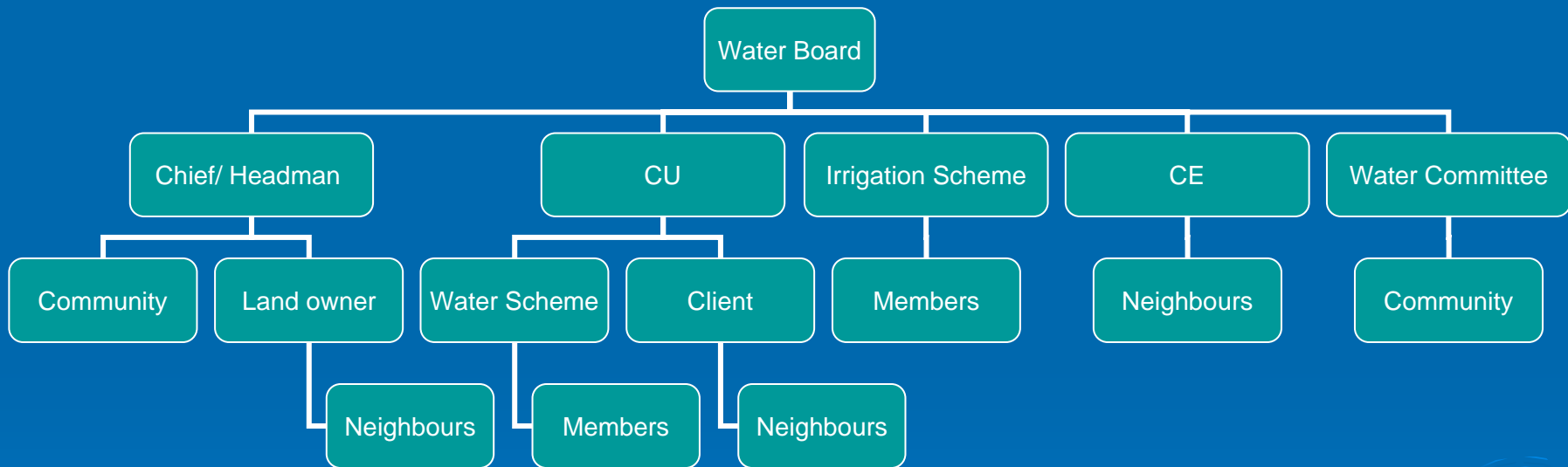
Type	Location	Maintenance	Cost	Supply
Individual Tap	Urban Areas	Local Authority or Commercial Utility	K15,000 to K40, 000	Usually constant apart from low pressure or dry taps
Communal Tap	Urban and peri-urban areas	Local Authority, Commercial Utility or Community	K1,000 to K3,000	Usually constant apart from low pressure or dry taps
Mono Pump	Peri-urban and Rural areas	Community	K500	Usually constant apart from breakdowns
Borehole	Farming blocks and Rural Areas	Individual owner or Community	K1/ litre to K5/ litre	Usually constant apart from breakdowns
Protected Well	Peri-urban and rural areas	Individual owner or Community	<K500 but usually Free	Usually constant
Shallow Well	Peri-urban and rural areas	Individual owner or Community	<K100 but usually Free	Usually constant
Stream	Peri-urban and rural areas	None	Free	Usually constant

# Regulation of Access

Type	Location	Type of Access	Regulation
Individual Tap	Urban Areas	Limited, household boundary	Individual responsibility
Communal Tap	Urban and peri-urban areas	Limited, Locking mechanism	Monitoring essential by community or tap attendant
Mono Pump	Peri-urban and Rural areas	Limited, Locking mechanism	Monitoring done by Water Committee
Borehole	Farming blocks and Rural Areas	Limited, Locking mechanism	Individual or community responsibility
Protected Well	Peri-urban and rural areas	Limited, Locking mechanism	Individual or community responsibility
Shallow Well	Peri-urban and rural areas	Limited, household boundary	Individual or community responsibility
Stream	Peri-urban and rural areas	Unlimited	None



# Influence and hierarchy



# Conclusion

## ➤ Decision Making

- Control of Resources
- Allocation of Resources

## ➤ Influence

- User Interaction web

## ➤ Role of Central Government

- Regulator
- Resource Development and Management
- Policy making

## ➤ Users of data

- Hydro-political map